

## SUBSTITUTE ABSTRACT

A fixing device includes a heating roller which is made of a magnetic metal, a coil which is made of a plurality of twisted wire rods, an exciting circuit which applies a high-frequency current to the coil, and a core which is made of a heat resistant resin and is arranged inside of the heat roller. The core has at least two grooves, each of the grooves being formed on a surface of the core in the vicinity of each of two end portions thereof, and the coil is wound on the core longitudinally. Parts of the coil are buried in the grooves such that a distance between the outer most part of the coil wound on the core and the inner surface of the heat roller is constant.